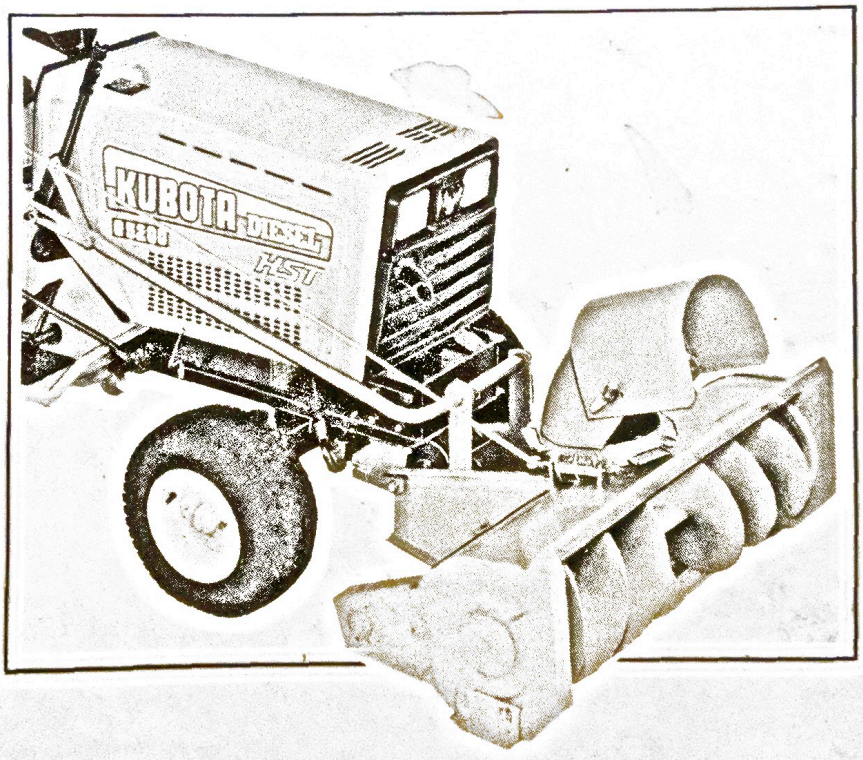
OPERATORS MANUAL

KUBOTA®

G2500, G2505
SNOWBLOWER

FOR TRACTOR MODELS G3200, G4200, G4200H, G5200H



Ser. 0060

FORM 70000-70228 10/83

IF THIS MACHINE IS USED BY AN EMPLOYEE OR IS LOANED OR RENTED, MAKE ABSOLUTELY CERTAIN THAT THE OPERATOR(S), PRIOR TO OPERATING:

1. IS INSTRUCTED IN SAFE AND PROPER USE.

2. REVIEWS AND UNDERSTANDS THE MANUAL(S) PERTAINING TO THE MACHINE.

751253

BEFORE STARTING ENGINE

STUDY OPERATOR'S MANUAL SAFETY MESSAGES
READ ALL SAFETY SIGNS ON MACHINE
CLEAR THE AREA OF OTHER PERSONS

LEARN & PRACTICE SAFE USE OF CONTROLS BEFORE OPERATING

IT IS YOUR RESPONSIBILITY TO UNDERSTAND AND FOLLOW MANUFACTURER'S INSTRUCTIONS ON MACHINE OPERATION, SERVICE, AND TO OBSERVE PERTINENT LAWS AND REGULATIONS. OPERATOR AND SERVICE MANUALS MAY BE OBTAINED FROM YOUR EQUIPMENT DEALER.

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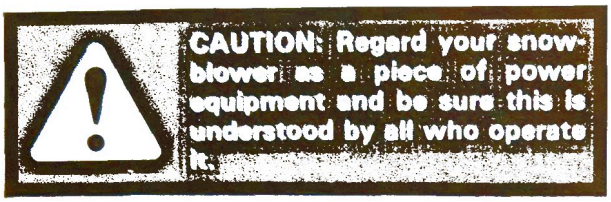
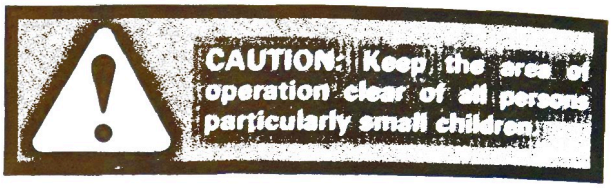
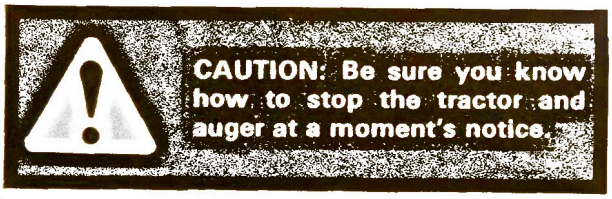
IMPORTANT: The safety messages contained in this manual are to be used together with the Safety Messages appearing in the tractor operator's manual. Be sure to review both carefully before operating the tractor snowblower combination.

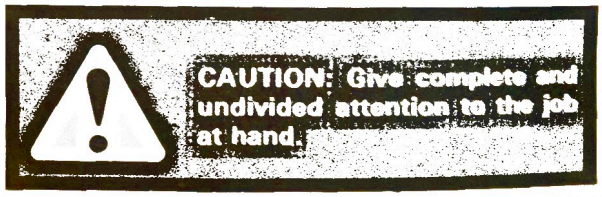

CAUTION: Regard your snowblower as a piece of power equipment and be sure this is understood by all who operate it.

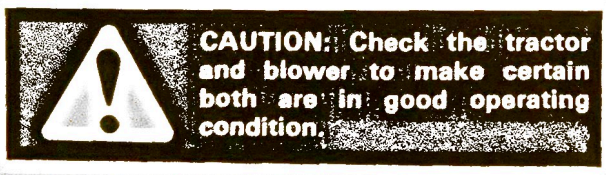

CAUTION: Keep the area of operation clear of all persons, particularly small children.


CAUTION: Never allow children or young teenagers to operate the tractor and snowblower.

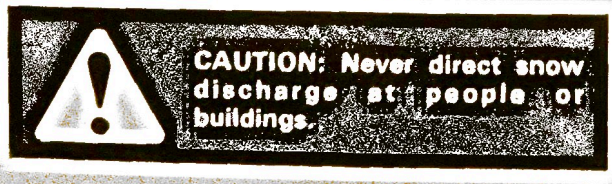

CAUTION: Stop engine and disengage attachment drive clutch when tractor is unattended.

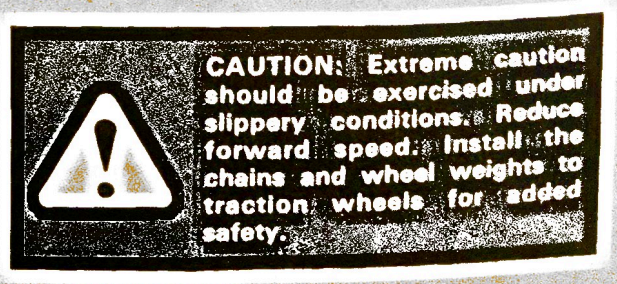

CAUTION: Be sure you know how to stop the tractor and auger at a moment's notice.


CAUTION: Give complete and undivided attention to the job at hand.

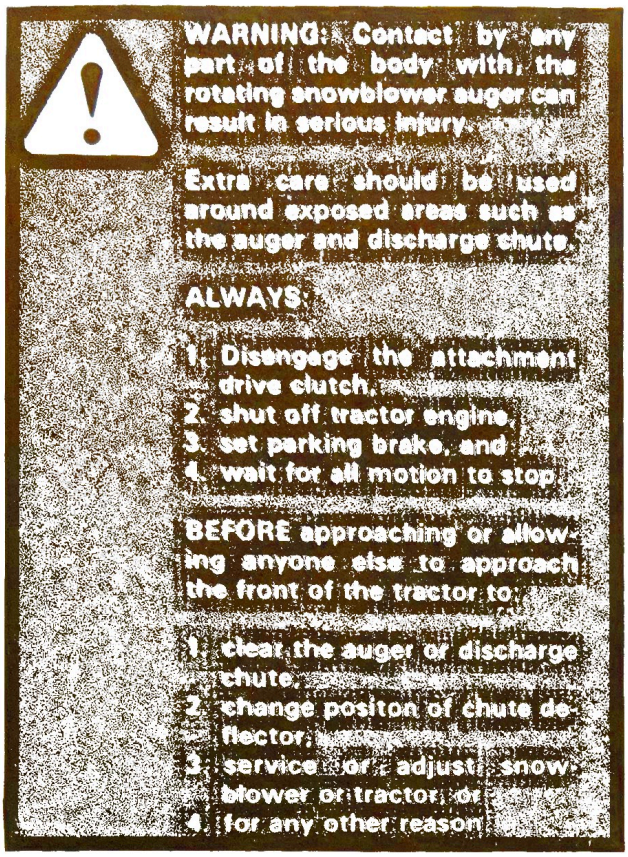

CAUTION: Check the tractor and blower to make certain both are in good operating condition.

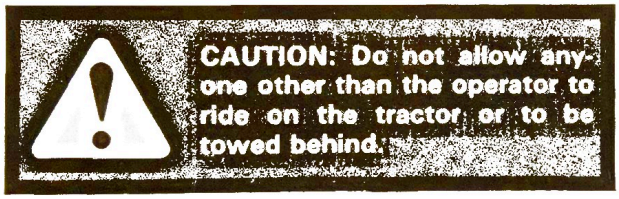

CAUTION: Disengage attachment drive clutch when someone approaches.


CAUTION: Never direct snow discharge at people or buildings.

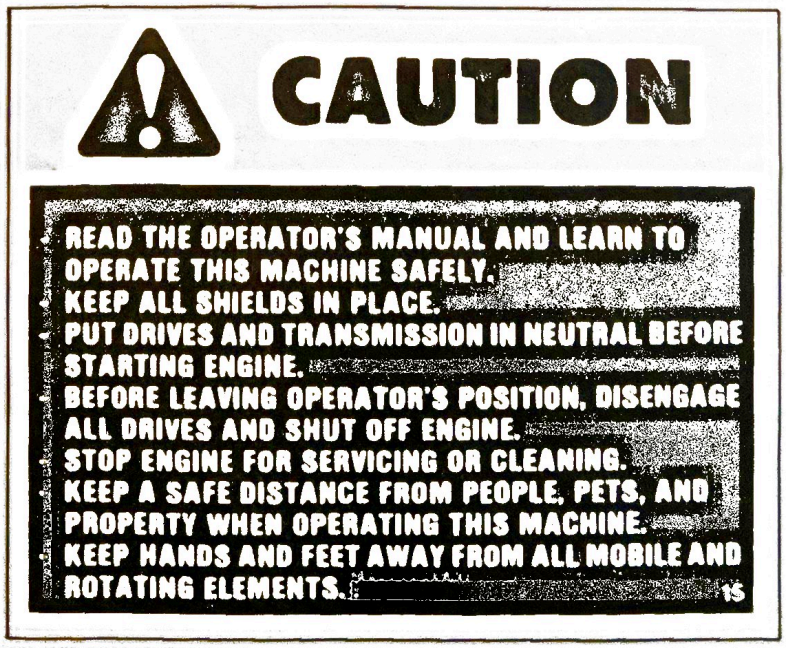

CAUTION: Extreme caution should be exercised under slippery conditions. Reduce forward speed. Install the chains and wheel weights to traction wheels for added safety.


CAUTION: Fill fuel tank out of doors and avoid spilling fuel. Do not fill tank with fuel while smoking or while engine is running.





IMPORTANT: Always install new decals whenever the old decals are destroyed, lost, painted over or illegible. When individual parts are replaced that have decals attached, be sure to install a new decal with the new part. Replacement decals are available from your Kubota Dealer.



INTRODUCTION

This Operator's Manual is for the Models G2500 and G2505 Snowblower. This Operator's Manual includes:

(a) Safety Rules

(b) Installation Procedure

(c) Operating Procedure

(d) Adjustments

(e) Maintenance

Read this manual before operating your snowblower.

See your KUBOTA dealer for parts or repairs.

The words "Right", "Left", "Front", and "Rear" as used in this manual indicate directions when you are in the operator's seat in the normal operating position.

NOTE: Kubota Tractor reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

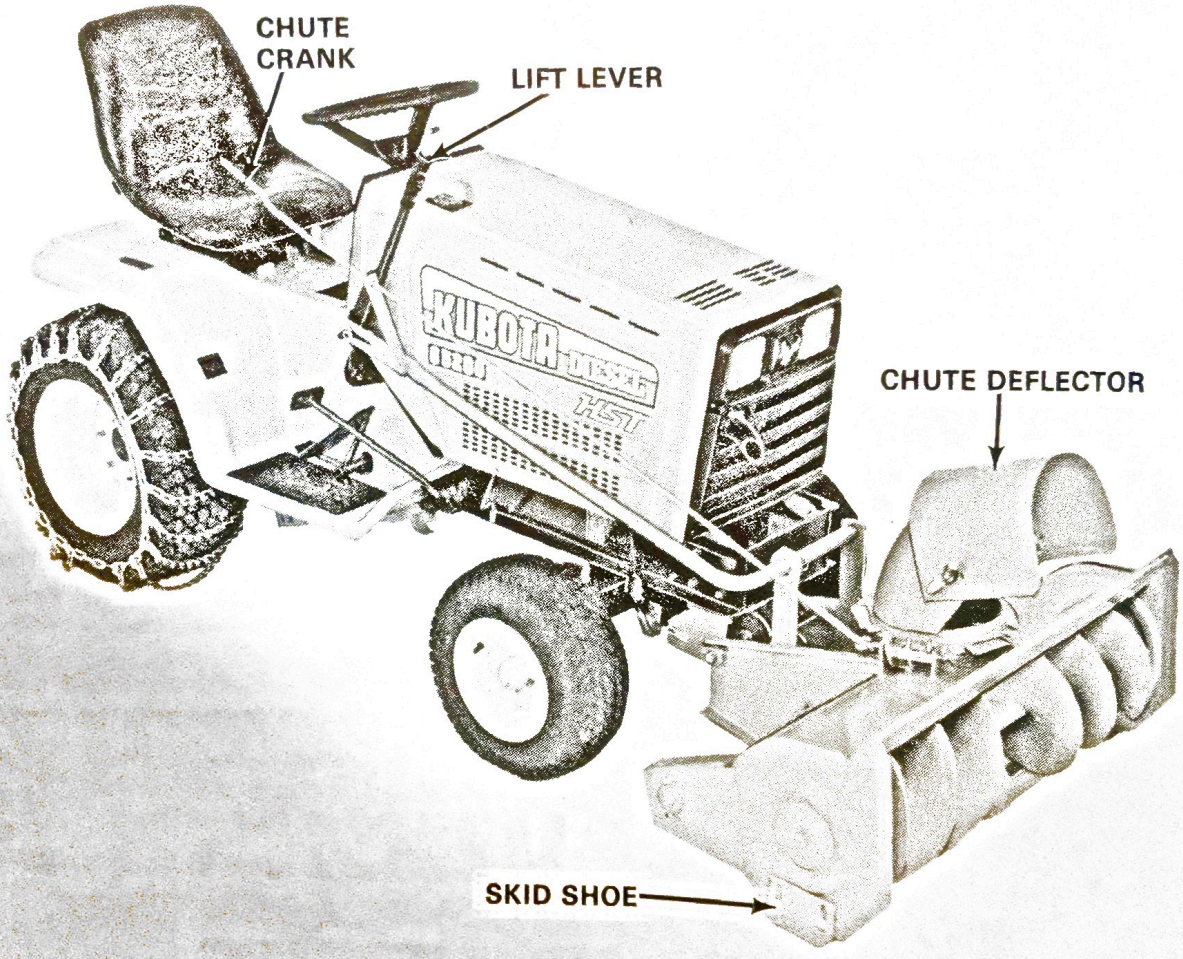


FIGURE 1 Model G5200 Tractor with Snowblower and Tire Chains.

ATTACHMENT APPLICATION CHART

MODEL	SIZE	TRACTOR MODEL
G2500 G2505	38" (965 mm) 48" (1220 mm)	G5200H, G4200H, G4200, G3200 G5200H, G4200H, G4200

OPERATING PROCEDURE

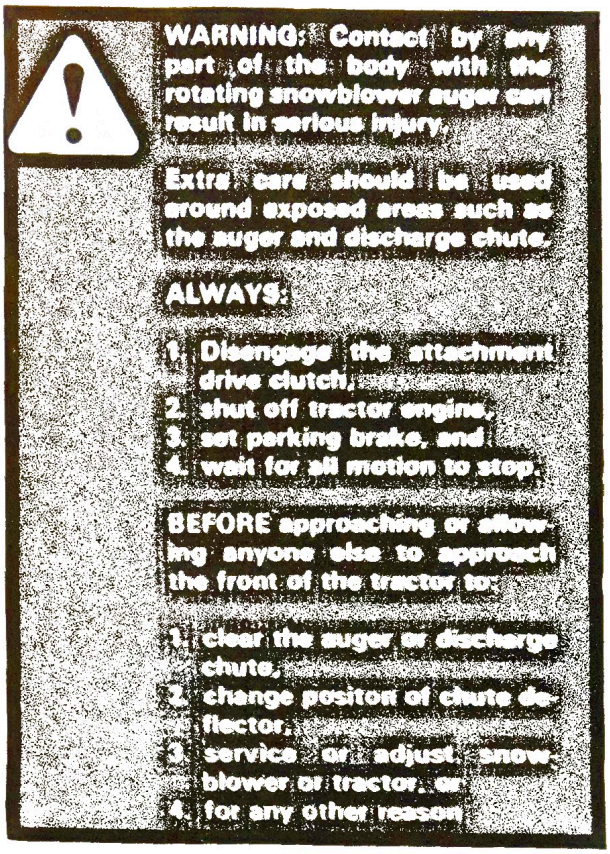
1. Whenever possible, discharge snow downwind.

2. Do not attempt to remove ice or hard packed frozen snow.

3. Always overlap each pass slightly to assure complete snow removal.

4. Use extreme care when freeing a frozen or stuck auger or chute. Always turn off the tractor first.

5. If tractor is equipped with Hydraulic Lift, do not apply down pressure to the snowblower.



OPERATING CONTROLS

ATTACHMENT DRIVE CLUTCH

The snowblower is started and stopped with the attachment drive clutch lever.

See your tractor Operator's Manual for correct use of your tractor controls.

ATTACHMENT LIFT LEVER

The snowblower is raised and lowered with the attachment lift lever.

CRANK FOR THE DISCHARGE CHUTE

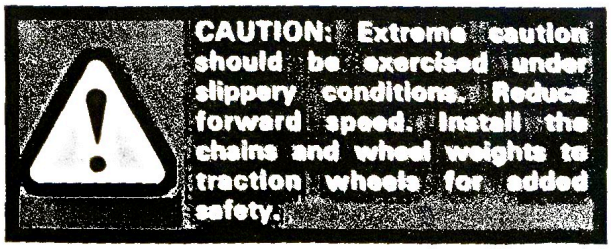
The discharge chute is rotated by turning the crank. This determines the direction of the discharged snow.

DEFLECTOR FOR THE DISCHARGE CHUTE

The deflector angle is changed by loosening the wing nuts and tilting it to the desired position and tightening the wing nuts. This controls the distance the snow is blown.

TIRE CHAINS AND REAR WEIGHTS

The use of tire chains and wheel weights, are recommened for snow removal operation. The extra traction resulting gives the tractor operator maneuverability in handling heavy snow removal jobs. Wheel weights are sold by your dealer and are not included with the snowblower.



PREPARING FOR SNOW REMOVAL

To become familiar with the controls, operate the tractor and snowblower in a clear area before removing snow. The more familiar you become with the snowblower the better results you will have in its use.

A light coat of wax applied to the inside surfaces of the discharge chute and deflector will help to prevent snow and slush from sticking. The inside of chute and deflector should be waxed several times during the snow removal season. Use any good commercial grade of paste wax or spray silicone which is available from your dealer or from your local hardware store.

Allow ample engine warm up time before starting snow removal.

CAUTION: Do not allow anyone other than the operator to ride on the tractor or to be towed behind.

Best results are obtained when snow is removed as soon as possible after it falls.

Check each item covered in the "Adjustments" and "Maintenance" sections of this manual before operating the snowblower.

CAUTION: Disengage the attachment drive clutch when starting engine and when transporting the snowblower. Before the first snow fall, the area in which snow removal is to take place should be cleared of all stones, sticks, etc., which might be picked up by the snowblower. OBSTACLES SUCH AS DRIVEWAY MARKERS, WATER OR GAS SHUT OFFS, ETC. SHOULD BE MARKED SO THEIR LOCATIONS UNDER THE SNOW ARE VERY OBVIOUS.

METHODS OF SNOW REMOVAL

A definite pattern of operation is required to thoroughly clean the snow area. This pattern will avoid a second removal of snow and avoid blowing snow to right and left, as on long driveway, it is advantageous to start in the middle. See Figure 2. Work from one end to the opposite end blowing snow to both sides without changing direction of discharge chute. If snow can only be blown to one side of the driveway, start on the opposite side. See Figure 3. At the end of each pass, rotate chute to opposite side for the return pass. At the end of each succeeding pass, rotate chute to opposite side to maintain direction of throw into the same area.

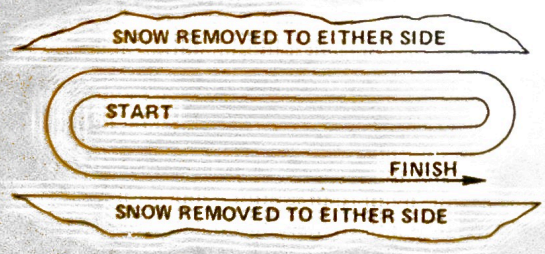


FIGURE 2

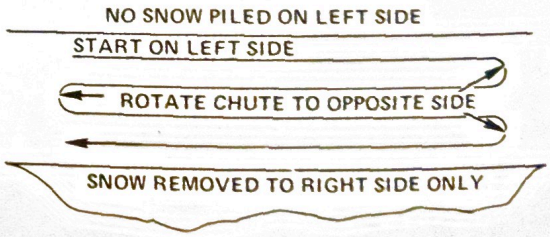


FIGURE 3

SNOW CONDITIONS

Snow removal conditions vary so greatly from the first light fluffy snowfall to wet or heavy snow that operating instructions must be flexible. The operator must operate according to depth of snow, wind direction, temperature, and surface conditions.

The auger speed and blowing distance are directly related to the engine speed. For maximum removal volume and distance, maintain high engine RPM (three-quarters to full governed throttle). Operating at lower throttle settings will increase fuel economy but reduce the blowing distance. Always operate the tractor in low range for safe and efficient snow removal. The speed control pedal or gear shift should be operated to provide a ground speed most compatible with the snow removal conditions.

In extremely deep snow, raise snowblower into transport and remove top layer first. Lower the snowblower to the ground and repeat process to remove the balance of snow. Working with repeated passes into and out of drifts will eventually move even the deepest of snow piles.

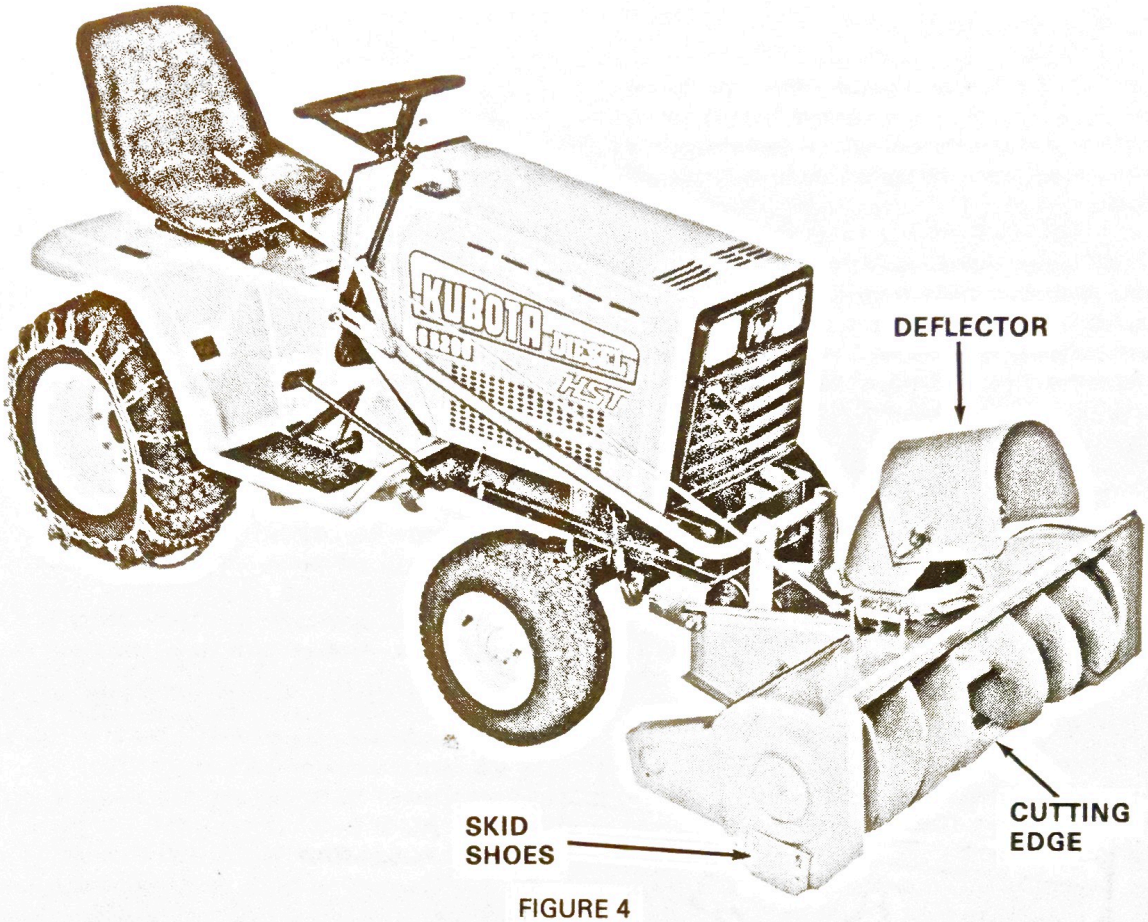


FIGURE 4

ADJUSTMENTS

SKID SHOES

The skid shoes have slotted mounting holes for adjustment. Use the following procedure to change the skid shoe height:

(a) Raise the snowblower. Shut off the engine.

(b) Place blocking under the snowblower cutting edge.

(c) Loosen the bolts and raise or lower the skid shoes to the desired height.

(d) Tighten the bolts.

Skid shoes raised: Snowblower cutting edge very close to surface. Use on smooth cement or asphalt surfaces.

Skid shoes lowered: Snowblower cutting edge raised above the surface. Use on uneven surfaces such as earth or gravel.

When the leading edges of the skid shoes wear, place the left skid shoe on the right side and the right skid shoe on the left side.

The skid shoes can be raised past the cutting edge by installing them with the offset to the outside. This will permit the cutting edge to be in contact with the ground surface. Use this method only when clearing hard level concrete or asphalt areas.

DEFLECTOR

The deflector has a slotted hole on each side for adjustment. To change the angle of the deflector, loosen the large wing nuts, tilt the deflector to the desired angle and tighten the large wing nuts.

Deflector tilted upward: Snow is blown higher and further from the tractor.

Deflector tilted downward: Snow is blown lower and closer to the tractor.

CUTTING EDGE

The cutting edge can be reversed when the leading edge wears down.

DRIVE CHAIN ADJUSTMENT

The chain has the proper tension when the lower strand has between 3/8" (10 mm) and 1/2" (12 mm) slack. Make this measurement when depressing the strand midway between the sprockets. Use "normal" finger pressure.

The chain will become progressively tighter by moving the bearing mounting bolts from holes "C" to holes "B" to holes "A". If the chain is too loose and the adjustment bolts are in holes "A", remove the special half link from the chain and move the adjustment bolts to holes "C".

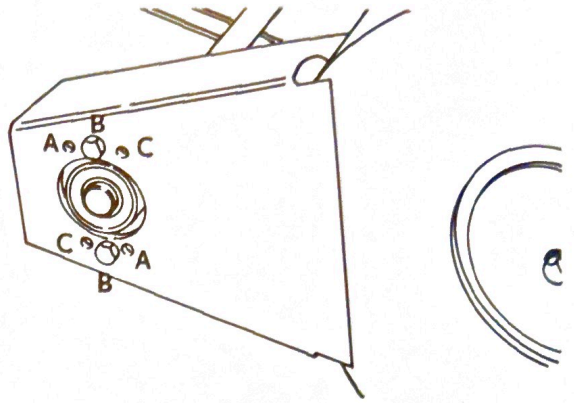


FIGURE 5 Chain Adjustment

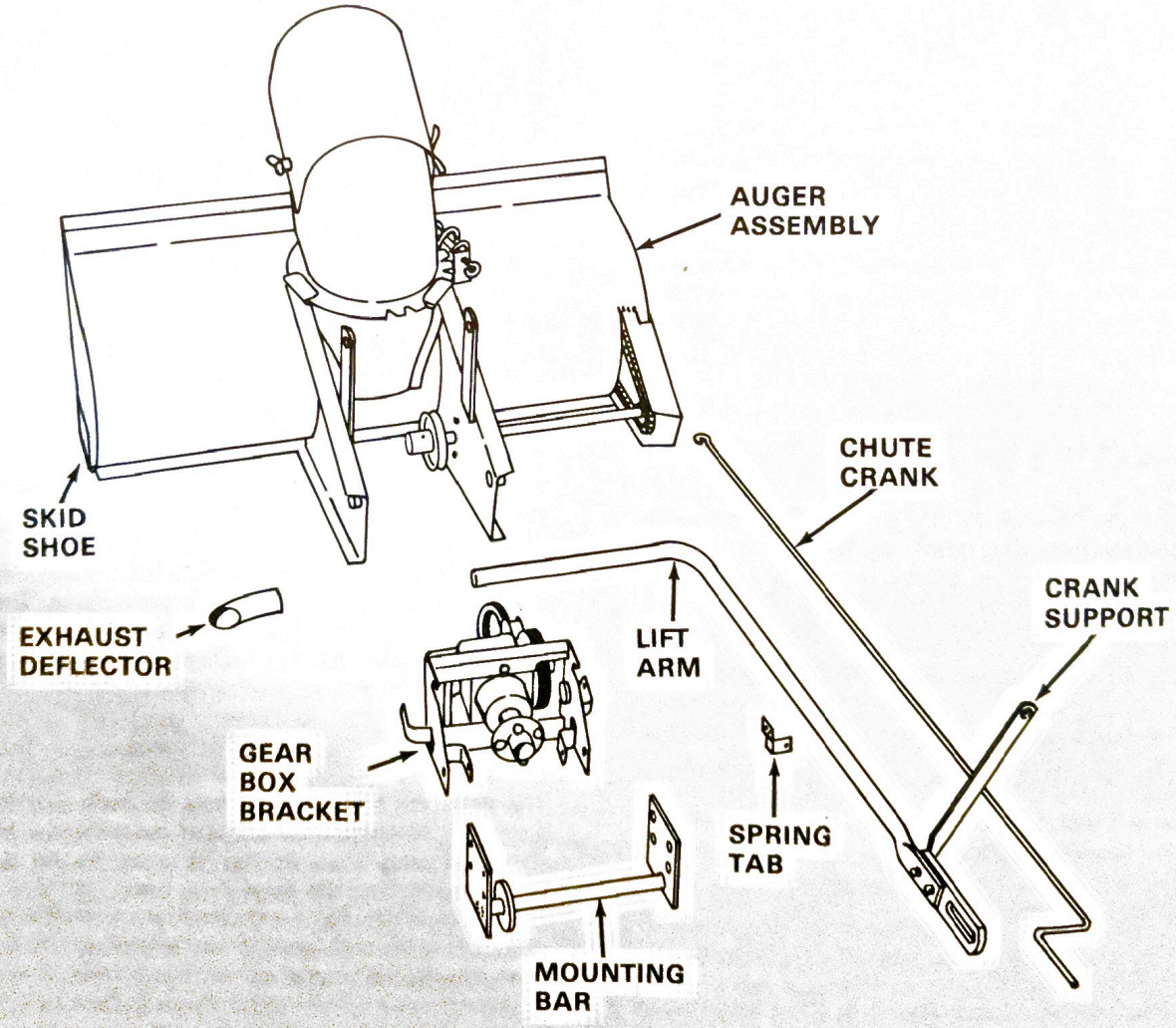


FIGURE 6 Snowblower Disassembled

ASSEMBLY

1. Remove the components from the box. Check for damage or missing parts.

2. Install the skid shoes with the round head bolts. Insert the bolts from the inside with the flat washer, lockwasher and nut on the outside.

   Install the skid shoes in their "down" position if the snowblower will be used on a gravel area.

   Install the skid shoes in their "up" position if the snowblower will be used on a cement or blacktop area.

3. Apply a light coating of grease to the outside of the discharge spout on the auger housing.

4. Place the chute over the discharge spout and engage the base ring notches with the crank spiral.

5. Install two of the chute guides on the sides with the round head of the bolt to the inside. Install the front chute guide with the nut to the inside.

6. Apply a light coating of grease to both sides of the notched chute base ring.

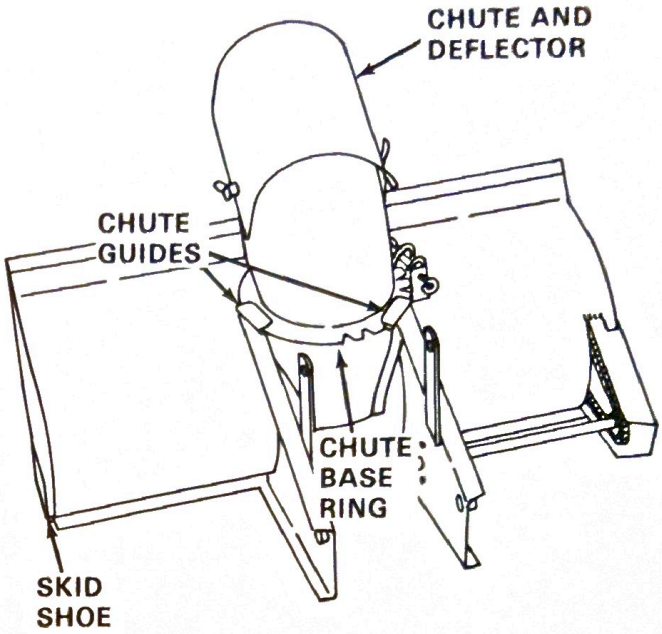


FIGURE 7

NOTE: Check to make certain the three guides are square with the chute base ring to prevent the chute from binding when turning the crank.

INSTALLATION

1. Locate the tractor on a smooth and level surface.

   Check tires for equal and recommended pressures.

2. Remove the front guard from the tractor PTO.

3. Remove the original bracket that holds PTO clutch spring. Install the tab provided and use the original bolt and hole. Connect the PTO Clutch spring.

4. Attach the monting bar to the tractor frame with the bar facing rearward and downward and the locating plate to left side. Install 4 bolts each side from the inside out. Secure with nuts. Do not tighten at this time.

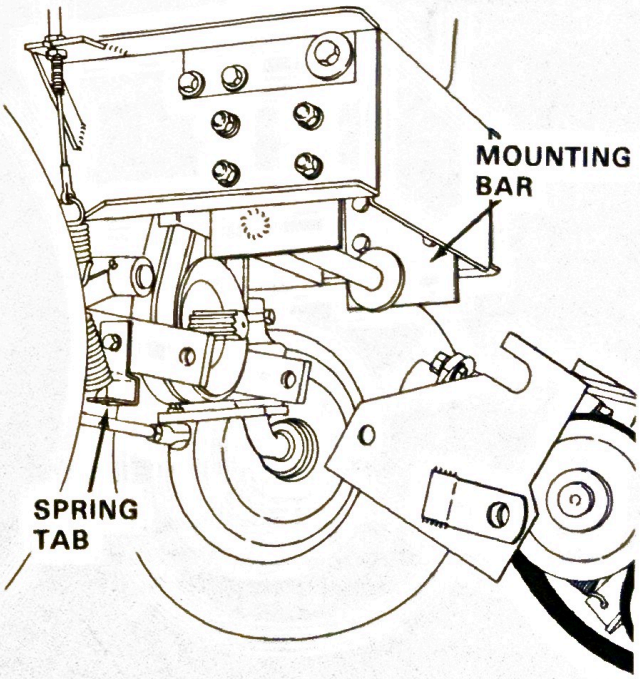


FIGURE 8

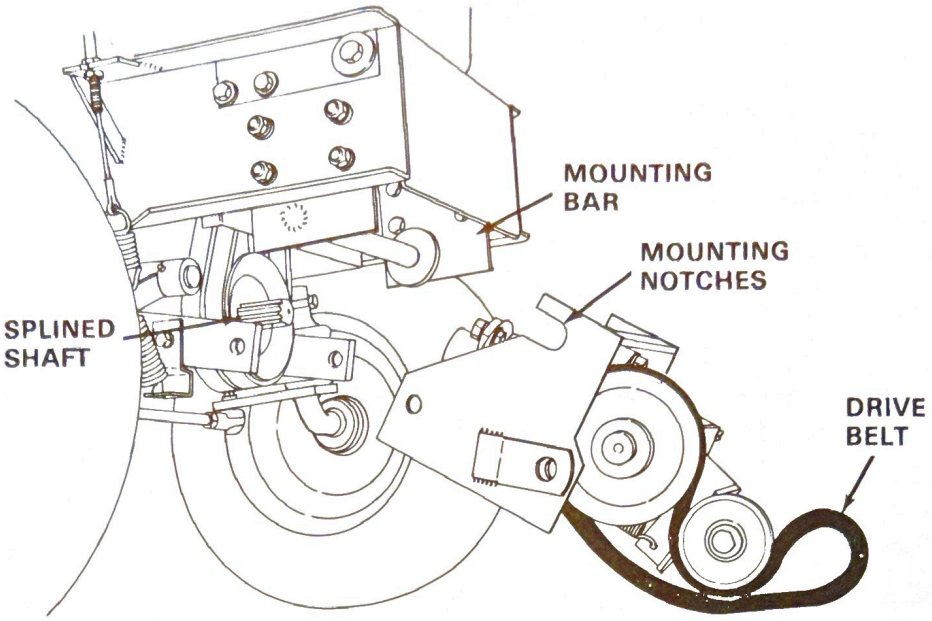


FIGURE 9

5. Install the belt on the gear box pulley. Turn the belt so the flat side passes the nut.

NOTE: The belt must be installed before mounting bracket is installed on the tractor.

6. See Figure 9. Apply a small amount of anti-seize compound to the splines to permit easier removal. Loosen the bolts securing the gear box to the bracket (if not already loose). Align the splines. Slip the bracket into position with notches over the mounting bar. Install the clevis pins in the mounting holes from the inside and secure with the hair pins.

NOTE: Tighten the bolts securing the gear box to the bracket and the 8 bolts securing the mounting bar to the tractor frame.

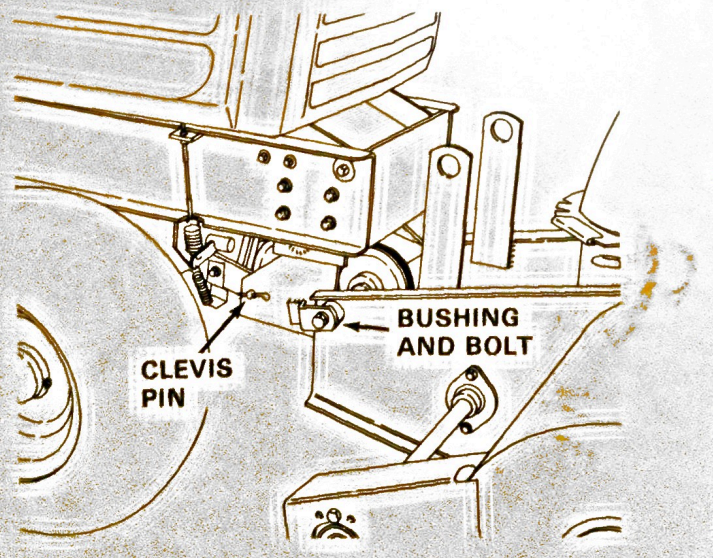


FIGURE 10

7. See Figure 10. Insert the bushings into the snowblower mounting holes. Align the snowblower with the mounting bracket and secure with the bolts provided.

8. Connect the chute crank to the crank spiral by aligning the open ends of each loop and rotating the loop of the chute crank onto the loop of the crank spiral.

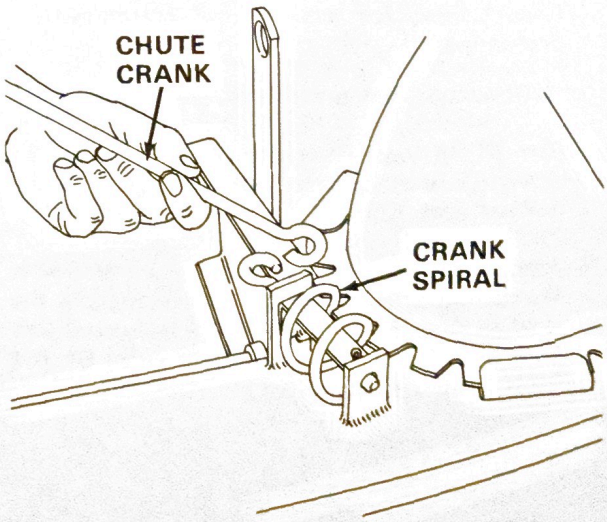


FIGURE 11

9. Thread the handle end of the chute crank through the hole in the crank support on the lift arm.

10. Secure the crank support to the outside of the flattened end of the lift pipe with the two bolts provided.

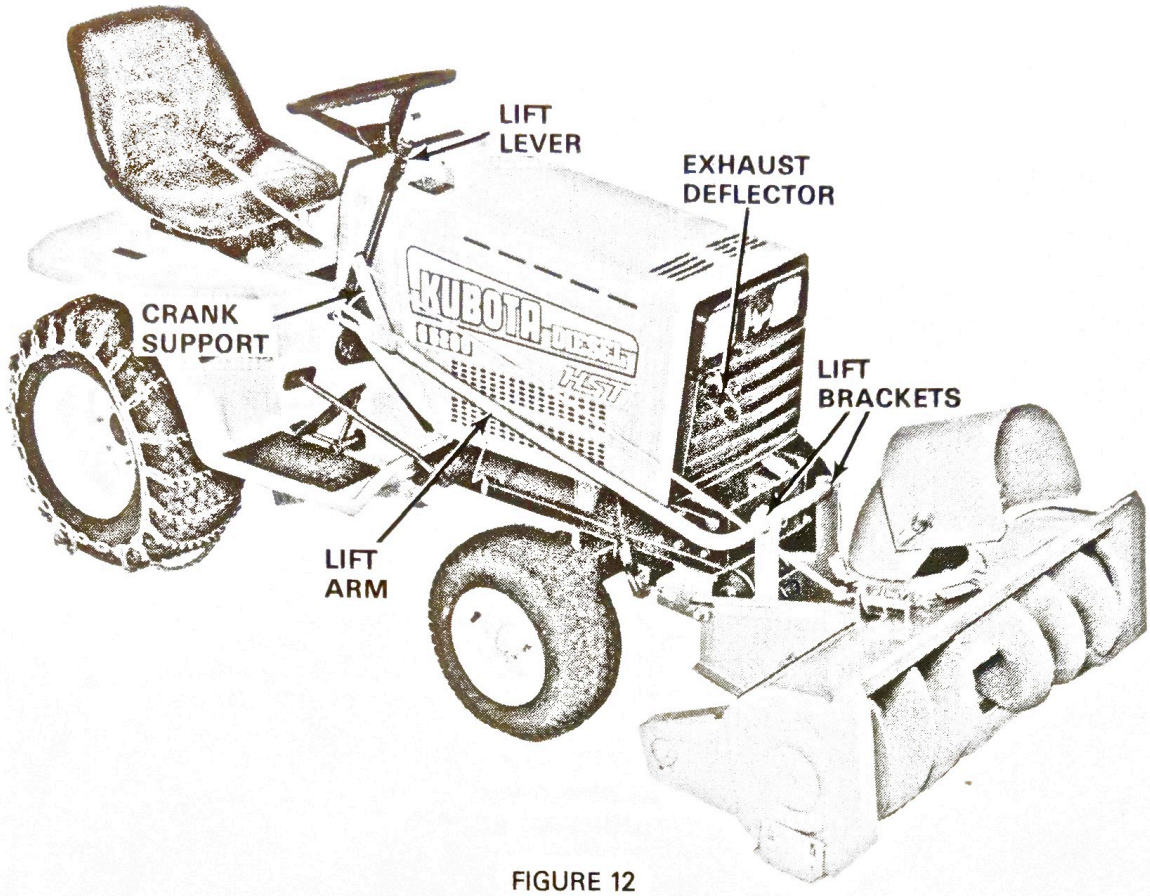


FIGURE 12

11. Place one plain washer next to the cotter pin and slide the lift arm through one lift bracket.

12. Place the second plain washer on the lift arm and slide the lift arm through the second lift bracket.

13. Push the washers tight on either side of the right lift bracket and secure with the safety pin.

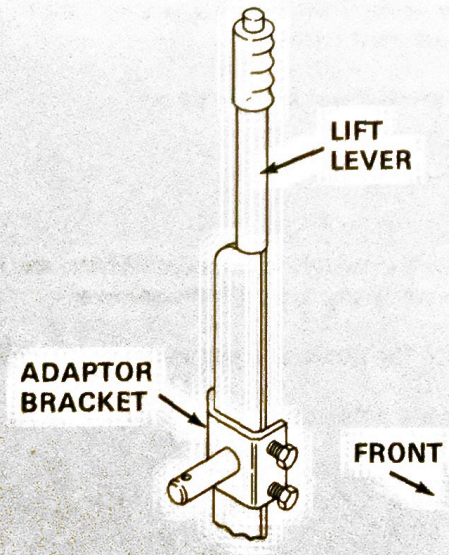


FIGURE 13 Lift Arm Adaptor

14. Attach the adapter to the tractor lift lever and with the bolts facing forward 5 inches down from the top of the flat stock.

15. Raise or lower the tractor lift lever to align the hole in the lift arm with the lug on the lift lever. Secure with a plain washer and safety pin.

16. Raise snowblower into transport position and install the drive belt on the snowblower pulley.

NOTE: The snowblower must be in the raised position to remove or install the belt from the snowblower pulley.
The mounting bracket must be removed from the tractor to replace the belt on the gear box pulley.

17. Install the exhaust deflector so it deflects the engine exhaust to the right.

IMPORTANT: Before operating the snowblower, review and follow the recommendations outlined in the Adjustments and Maintenance sections of this manual.

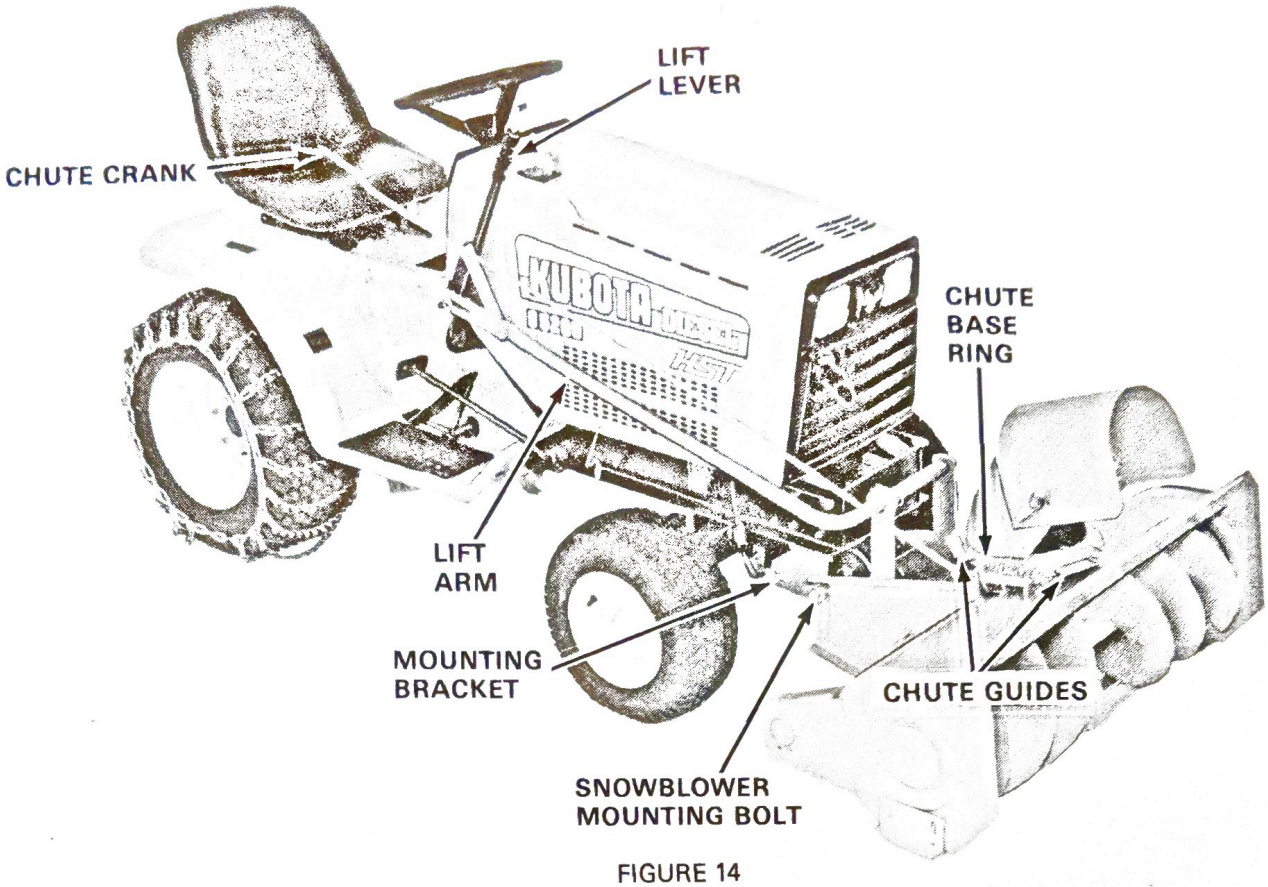


FIGURE 14

MAINTENANCE

Grease the discharge chute crank pivot points,chute guides and the chute base ring daily to keep the crank turning freely.

Once a month during season or every 25 operating hours, lubricate the auger drive chain with Heavy Duty Chain and Cable Lubricant.

The Angle Drive Gear Box Requires no maintenance.

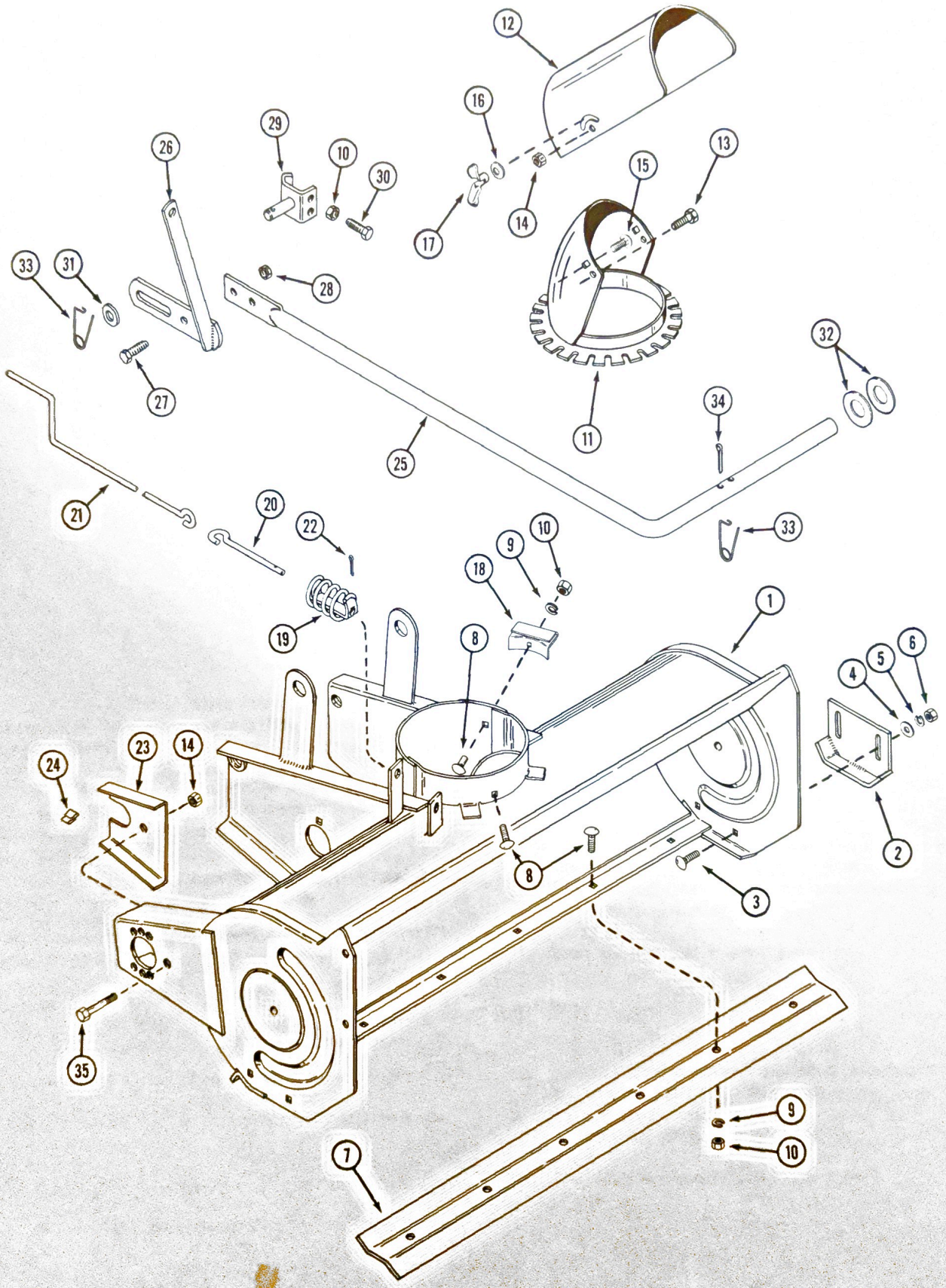
At the end of the snow season, the following steps are recommended:

1. Remove the snowblower from tractor following the procedure outlined at the end of this manual.
2. Wash off any salt deposit which may have dried on the auger and chute. Paint or cover exposed metal with a light coat of oil.
3. Service the snowblower following lubrication instructions above. Oil the auger drive chain thoroughly using Chain and Cable Lubricant to prevent rust from forming.
4. Store snowblower in a dry place.

REMOVING THE SNOWBLOWER

1. Raise the snowblower to the transport position.
2. Lift the idler pulley and remove the belt from the snowblower pulley.
3. Lower the snowblower to the ground.
4. Remove the snowblower lift arm from the tractor lift lever.
5. Remove the snowblower mounting bolts and back the tractor away from the snowblower.
6. Remove the clevis pins and mounting bracket.
7. Remove the mounting bar. See figure 8.

NOTES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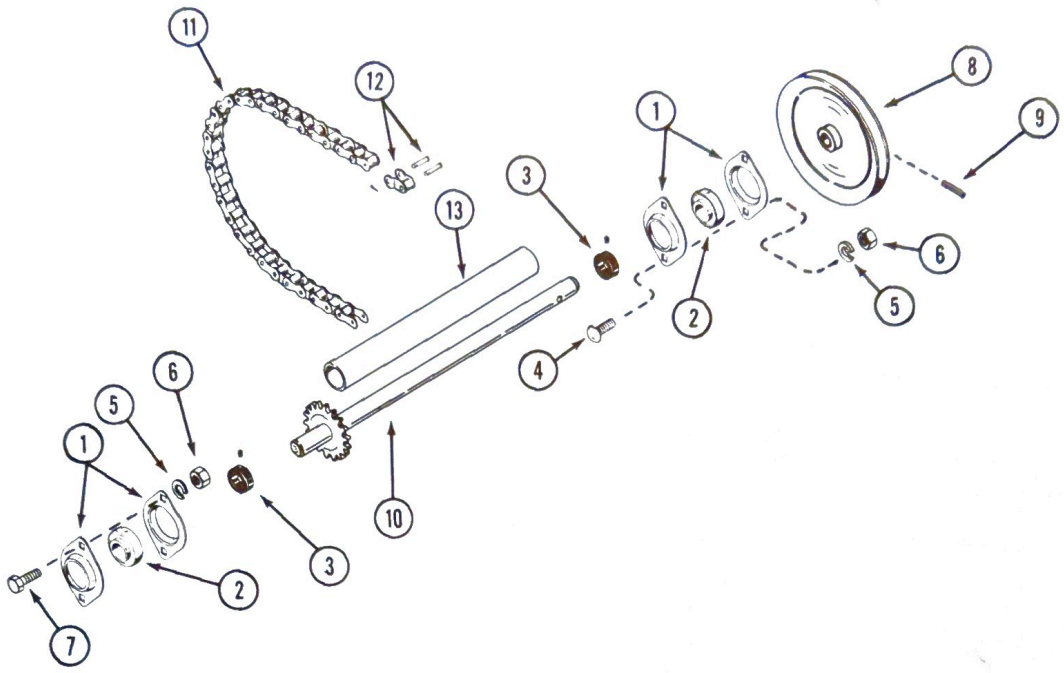
HOUSING, CHUTE CONTROL AND LIFT ASSEMBLY

REF.	DESCRIPTION	QTY.
1	HOUSING - auger 38" (965 mm) (G2500)	1
1	HOUSING - auger 48" (1220 mm) (G2505)	1
2	SHOE - skid	2
3	BOLT - 3/8"-16 x 1" carriage	4
4	WASHER - 3/8" flat	4
5	LOCK WASHER - 3/8"	4
6	NUT - 3/8"-16 hex	4
7	BLADE - snowblower 38" (965 mm) (G2500)	1
7	BLADE - snowblower 48" (1220 mm) (G2505)	1
8	BOLT - 5/16"-18 carriage	UAR
9	LOCK WASHER - 5/16"	UAR
10	NUT - 5/16" hex	UAR
11	CHUTE	1
12	DEFLECTOR - chute	1
13	BOLT - 1/4"-20 x 1/2" hex	2
14	NUT - 1/4"-20 lock	3
15	BOLT - 3/8"-16 x 3/4" carriage	2
16	WASHER - dished 25/64" x 1" O.D.	2
17	WINGNUT - deflector locking	2
18	BRACKET - chute hold down	3
19	COIL - chute control	1
20	ROD - chute control	1
21	CRANK - chute control	1
22	PIN - cotter 1/8" x 7/8" (special hardness)	1
23	SHIELD - chain	1
24	CLIP - "S" tinnerman	2
25	ARM - lift	1
26	SUPPORT - crank	1
27	BOLT - 3/8" x 1" hex	2
28	NUT - 3/8" lock	2
29	BRACKET - adaptor, lift lever	1
30	BOLT - 5/16" x 3/4" hex	2
31	WASHER - 21/32 x 1 5/16" O.D.	1
32	WASHER - 1-3/16" x 2-1/4" O.D.	2
33	PIN - safety	2
34	PIN - cotter 3/32" x 1-1/2"	1
35	BOLT - 1/4" x 3" hex	1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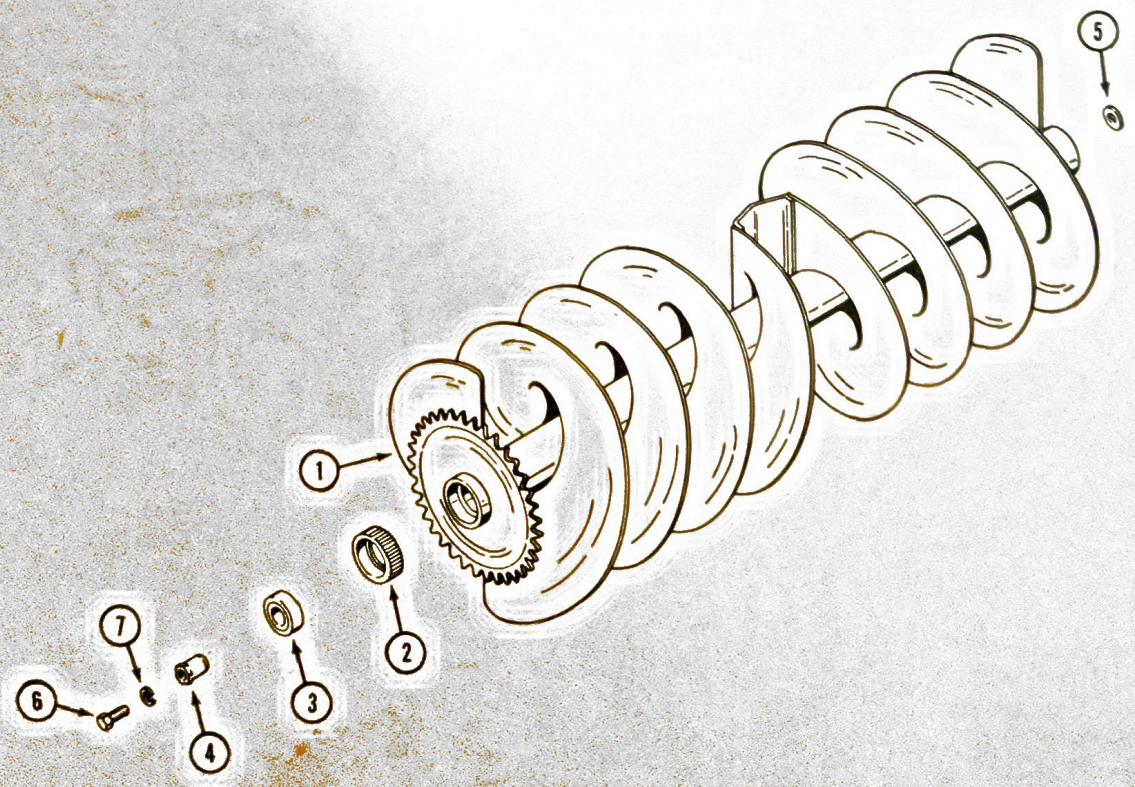
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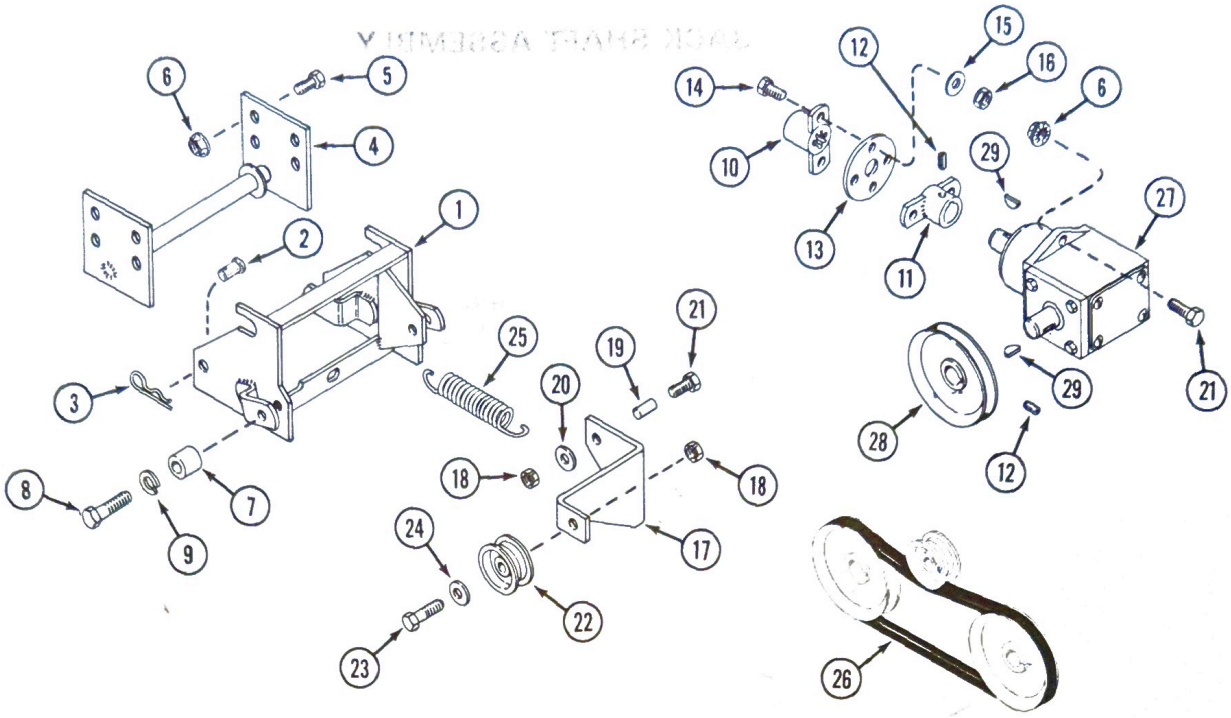
JACK SHAFT ASSEMBLY

REF.	DESCRIPTION	QTY.
1	FLANGETTE - bearing	4
2	BEARING	2
3	COLLAR - locking	1
4	BOLT - 5/16"- 18 x 3/4" carriage	2
5	LOCK WASHER - 5/16"	4
6	NUT - 5/16"-18 hex	4
7	BOLT - 5/16"-18 x 3/4" hex	2
8	PULLEY - 4" (102 mm) O.D.	1
9	PIN - spirol 1/4" x 1-1/2"	1
10	SHAFT - drive (G2500)	1
10	SHAFT - drive (G2505)	1
11	CHAIN - auger drive, 75 pitches #40 roller chain	1
	LINK - connecting #40	1
	LINK - roller #40	1
12	LINK - offset #40	1
13	SHIELD - shaft (G2500)	1
13	SHIELD - shaft (G2505)	1

AUGER ASSEMBLY

REF.	DESCRIPTION	QTY.
1	AUGER ASSEMBLY - 38" (965 mm) (G2500)	1
1	AUGER ASSEMBLY - 48" (1220 mm) (G2505)	1
2	SLEEVE - bearing	2
3	BEARING - auger	2
4	SHAFT - stub	2
5	WASHER - 3/8" x 3/4" O.D.	UAR
6	BOLT - 3/8"-16 x 3/4" hex	2
7	LOCK WASHER - 3/8"	2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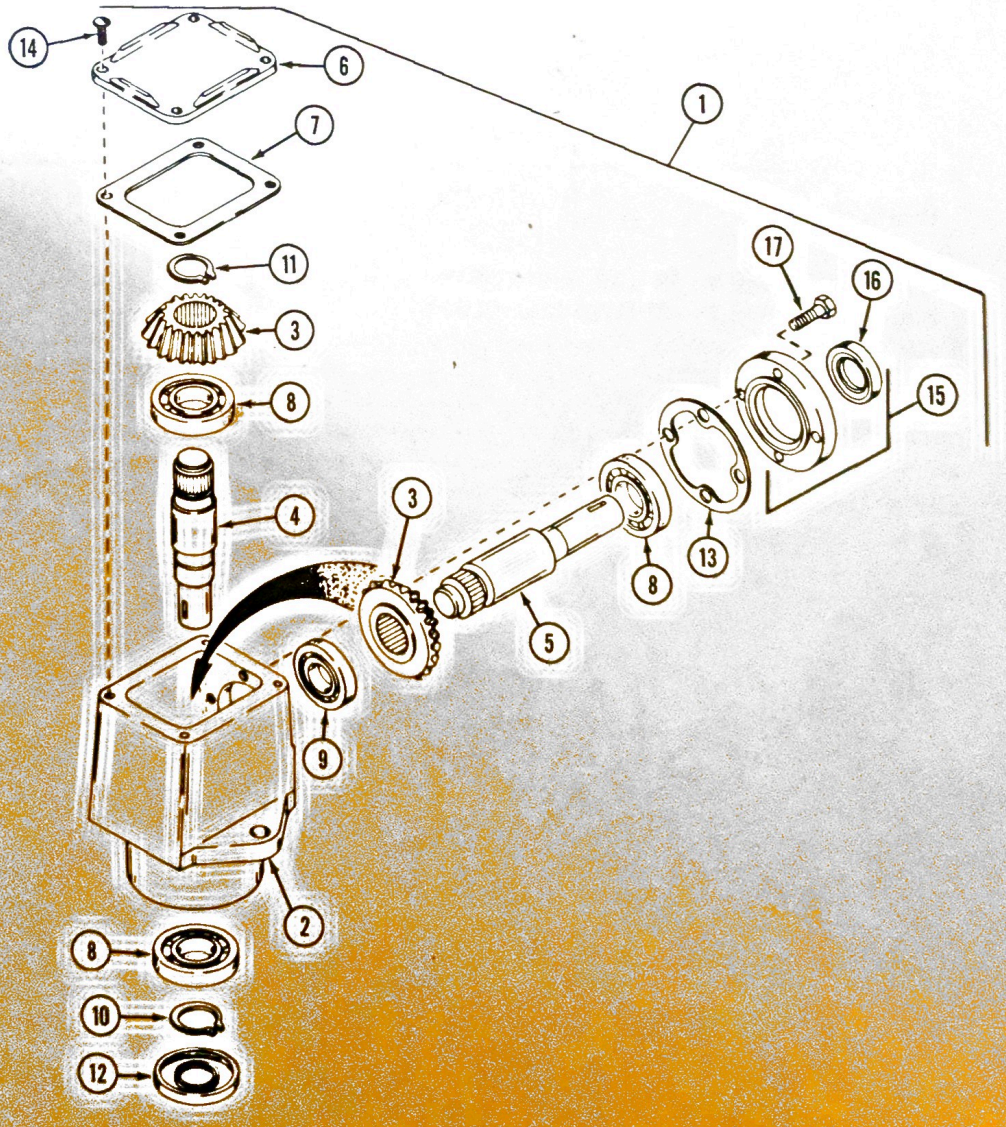
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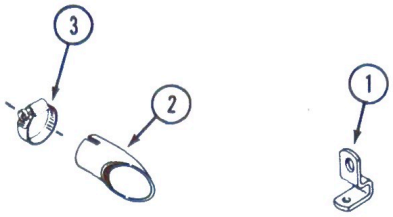
MOUNTING BRACKET, COUPLING, BELT, PULLEY AND IDLER

REF.	DESCRIPTION	QTY.
1	BRACKET - mounting and gear box	1
2	PIN - clevis	2
3	PIN - cotter hair pin	2
4	BAR - mounting	1
5	BOLT - 3/8" x 3/4" hex	8
6	NUT - 3/8" lock flanged head	8
7	BUSHING - pivot	2
8	BOLT - 1/2" x 2"	2
9	LOCK WASHER - 1/2"	2
10	COUPLING - splined	1
11	COUPLING - keyed	1
12	SCREW - set 5/16"-18 x 3/8"	2
13	DISK - coupling	1
14	BOLT - 5/16" x 3/4" hex	4
15	WASHER - 5/16" flat	4
16	NUT - 5/16" lock, hex	4
17	ARM - idler	1
18	NUT - 3/8" lock	2
19	BUSHING - idler arm	1
20	WASHER - 7/16" x 1-1/4" O.D. 3/8" thick	1
21	BOLT - 3/8" x 1-1/4"	3
22	PULLEY - idler	1
23	BOLT - 3/8" x 1-1/2" hex	1
24	WASHER - 3/8" flat	1
25	SPRING - idler	1
26	BELT - drive	1
27	BOX - gear	1
28	PULLEY - drive 4-1/2" (114 mm)	1
29	KEY - woodruff 3/16" x 1-1/4"	2

GEAR BOX

REF.	DESCRIPTION	QTY.
1	GEAR BOX	1
2	HOUSING - gear box	1
3	GEAR - bevel	2
4	SHAFT - input	1
5	SHAFT - output	1
6	COVER - end	1
7	GASKET - cover	1
8	BEARING - ball	3
9	BEARING - ball	1
10	RING - snap	1
11	RING - snap	1
12	SEAL - oil	1
13	GASKET - cap	1
14	SCREW - No. 10 - 24 x 1/2" self-tap	4
15	CAP AND SEAL ASSEMBLY - end	1
16	SEAL - oil	1
17	SCREW - 1/4"-20 x 7/8" hex	4



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G2505

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G2500

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KUBOTA

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CAUTION

- READ THE OPERATOR'S MANUAL AND LEARN TO OPERATE THIS MACHINE SAFELY.
- KEEP ALL SHIELDS IN PLACE.
- PUT DRIVES AND TRANSMISSION IN NEUTRAL BEFORE STARTING ENGINE.
- BEFORE LEAVING OPERATOR'S POSITION, DISENGAGE ALL DRIVES AND SHUT OFF ENGINE.
- STOP ENGINE FOR SERVICING OR CLEANING.
- KEEP A SAFE DISTANCE FROM PEOPLE, PETS, AND PROPERTY WHEN OPERATING THIS MACHINE.
- KEEP HANDS AND FEET AWAY FROM ALL MOBILE AND ROTATING ELEMENTS.

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WARNING

ROTATING AUGER

TO AVOID SEVERE INJURY, KEEP HANDS OUT OF AUGER AND DISCHARGE CHUTE WHILE ENGINE IS RUNNING

DECALS AND ACCESSORIES

REF.	DESCRIPTION	QTY.
1	TAB - spring holder	1
2	DEFLECTOR - exhaust	1
3	CLAMP - exhaust deflector	1
4	DECAL - Warning	1
5	DECAL - "Kubota"	1
6	DECAL - "G2500"	1
7	DECAL - "G2505"	1
8	DECAL - "Warning" rotating auger	1

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